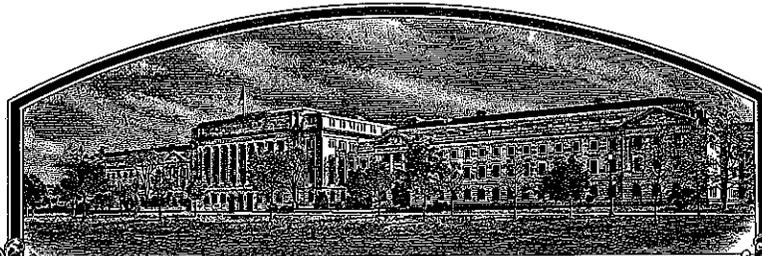


No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE HERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC FURNISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SAID APPLICANT(S) TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, CHEWINGS

'Treasure II'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fifteenth day of April, in the year two thousand and eight.

Attest:

[Signature]

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and The Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
 (Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

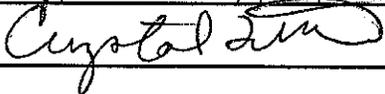
1. NAME OF OWNER Pure-Seed Testing, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PST-4TZ	3. VARIETY NAME Treasure II
4. ADDRESS (Street and No., or RFD No., City, State, and ZIP Code, and Country) P.O. Box 449 Hubbard, OR 97032		5. TELEPHONE (include area code) 503-263-0719	FOR OFFICIAL USE ONLY VPO NUMBER # 200800011
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		6. FAX (include area code) 503-263-0703	FILING DATE 10/19/2007
8. IF INCORPORATED, GIVE STATE OF INCORPORATION Oregon		9. DATE OF INCORPORATION 3 June 1974	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Crystal Rose-Fricker Pure-Seed Testing, Inc. P.O. Box 449 Hubbard, OR 97032			FEES RECEIVED FILING AND EXAMINATION FEES: \$ 4,382.00 DATE 10/19/2007 CERTIFICATION FEE: \$ 768.00 DATE 12/26/2007
11. TELEPHONE (Include area code) (503) 263-0719	12. FAX (Include area code) (503) 263-0703	13. E-MAIL crystal@pureseedtesting.com	
14. CROP KIND (Common Name) Chewings fescue	16. FAMILY NAME (Botanical) Gramineae	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS & SPECIES NAME OF CROP Festuca rubra fallax	17. IS THE VARIETY A FIRST GENERATION HYBRID? Yes	20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes," answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no," go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit g. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) h. <input checked="" type="checkbox"/> Filing and Examination fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) 		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		22. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. FOR EACH CLASS FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
SIGNATURE OF OWNER 		SIGNATURE OF OWNER	
NAME (Please print or type) Crystal Rose-Fricker		NAME (Please print or type)	
CAPACITY OR TITLE President, Pure-Seed Testing, Inc.	DATE 10/18/07	CAPACITY OR TITLE	DATE

Exhibit A - Revised

Origin and Breeding History of 'Treasure II' (PST-4TZ) Chewings Fescue

'Treasure II' (PST-4TZ) chewings fescue (*Festuca rubra* L. subsp. *fallax*) is a turf-type cultivar selected from the progenies of four Treasure plants combined with selections from Longfellow and collections from Cambridge, MA (contains a fungal endophyte, *Acremonium typhinum*, Morgan-Jones and Gams, the anamorph of *Epichloe typhina* [Pers:Fr] Tul also referred to as the Cambridge endophyte) to develop an improved Treasure II for seed yield and turf performance.

During the summer of 1998, 20 plants were selected out of a Treasure Breeder seed nursery for producing more seed heads than the rest of the plants. These were harvested and sent to Rutgers University to be planted in the 1998 turf trials in Adelphia, New Jersey. During the summer of 2002 the four best looking turf plots were sprigged and sent to Oregon to be planted in a spaced plant nursery the fall of 2002. These plants were interplanted in a nursery of 3,900 plants with selections from Longfellow and the Cambridge endophyte collection.

The summer of 2003 plants were removed from this nursery for poor seed head number, poor floret fertility and rust (*Puccinia crandallii*) susceptibility. This isolated nursery was also rogued to uniformity leaving 839 plants which were harvested as the Breeder seed of Treasure II chewing's fescue. Three hundred ninety-seven of these plants trace to Treasure, 363 plants trace to Longfellow and 79 plants trace maternally to the Cambridge endophyte collection.

Treasure II has been observed to be stable and uniform for three years through Breeder, Foundation and Certified seed generations. Breeder seed is maintained by Pure-Seed Testing, Inc. and will be regenerated as needed. Seed propagation of Treasure II is limited to three generations of increase from Breeder seed: one each of Foundation, Registered and Certified. Treasure II chewings fescue and the parents of Treasure II have produced turf and seed production fields of good quality, acceptable uniformity and good stability. No variants have been observed in the replication or multiplication of Treasure II chewings fescue.

Exhibit B - Revised**Statement of Distinctness for 'Treasure II' (PST-4TZ) Chewings Fescue**

'Treasure II' is most similar to 'Treasure' Chewings fescue. They differ in the following characteristics.

1. Treasure II's leaf sheath anthocyanin (seedling) is present where Treasure's is absent (see attached Exhibit C #8 from Treasure PVP Cert. No. 9600026).
2. Treasure II has a semi-rough leaf blade margin where Treasure's is rough (see attached Exhibit C's Addendum from Treasure PVP Cert. No. 9600026).
3. Treasure II's leaf sheath margins are closed where Treasure's are open (see attached Exhibit C #8 from Treasure PVP Cert. No. 9600026).
4. The panicle's anther color on Treasure II is yellowish-green where Treasure's is purple (see attached Exhibit C #9 from Treasure PVP Cert. No. 9600026).
5. Treasure II has an ovate panicle shape where Treasure's is oblong (see attached Exhibit C's Addendum from Treasure PVP Cert. No. 9600026).
6. Treasure II's panicle length is at least 0.7 cm shorter than Treasure (Tables 2-3).

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(FINE LEAVED FESCUES)**

**OBJECTIVE DESCRIPTION OF VARIETY
FINE LEAVED FESCUES
(*Festuca* spp.)**

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Pure-Seed Testing, Inc.	PST-4TZ	Treasure II
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)		FOR OFFICIAL USE ONLY
P.O. Box 449 Hubbard, OR 97032		PVPO NUMBER
		#200800011

Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeroes when necessary. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used:

Describe location of the test area, conditions and number of plants used: **Pure-Seed Testing Research Farm near Hubbard, OR. Sixty plants measured from P.V.P. nursery planted in a randomized complete block with three replications of 20 plants each.**

1. SPECIES: (With companion varieties for use below – use varieties within species of application variety)

<input type="checkbox"/> 7	1 = <i>F. rubra</i> ssp. <i>commutata</i> (Chewings)	11 = Cascade	12 = Highlight	13 = Jamestown
		14 = Banner	15 = Barfalla	16 = Shadow II
	2 = <i>F. rubra</i> ssp. <i>litoralis</i> (Creeping Red)	21 = Dawson	22 = Starlight	23 = Merlin
		24 = Pennlawn		
	3 = <i>F. rubra</i> ssp. <i>rubra</i> (Spreading Red)	31 = Boreal	32 = Ruby	33 = Fortress
		34 = Ensylva		
	4 = <i>F. ovina</i> (Sheep)	41 = Covar		
	5 = <i>F. longifolia</i> (Hard)	51 = Durar	52 = Biljart (C-26)	53 = Scaldis
	6 = <i>F. tenuifolia</i> (Fine-Leaved Sheep)	61 = Panda	62 = Barok	
	7 = Other (Specify) F. <u><i>Festuca rubra fallax</i> (Chewings)</u>			

2. CYTOLOGY:

<input type="checkbox"/> 4	<input type="checkbox"/> 2	Chromosome Number	<input type="checkbox"/> 3	Ploidy	1 = diploid	2 = tetraploid	3 = hexaploid	4 = octoploid
----------------------------	----------------------------	-------------------	----------------------------	--------	-------------	----------------	---------------	---------------

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2=Adapted)

<input type="checkbox"/> 2	Northeast	<input type="checkbox"/> 2	Southeast	<input type="checkbox"/> 2	North Central	<input type="checkbox"/> 2	Pacific N.W.
<input type="checkbox"/>	Other (Specify) : _____						

4.

4. MATURITY: Date First Headed (panicle emergence) Location(s) of Trail(s) Hubbard, OR See Table 1

Maturity Class: #200800011
 1 = Very Early (Covar) 2 = Early (Highlight) 3 = Medium Early (Boreal, Dawson)
 4 = Medium Late (Cascade, Ruby) 5 = Late (Jamestown, Agram) 6 = Very Late

Date Headed 19 April

Days earlier than }
 Maturity same as } Comparison Variety
 Days later than }

5. PLANT HEIGHT: (At maturity; to top of panicle; average of 10 tallest culms) Table 2

mm Height
 mm shorter than }
 Height same as } Comparison Variety
 mm Taller than }

6. GROWTH HABIT (Mature):

1 = Erect (Ruby) 2 = Semi-erect (Highlight) 3 = Prostrate (Silvana)

7. RHIZOMES:

mm Length mm Width mm Internode length
 1 = Absent 2 = Weakly Creeping (Dawson)
 3 = Strongly Creeping (Boreal) 4 = Very Strongly Creeping (Boreal)

8. LEAF BLADE:

Color:
 1 = Light Green (Starlight) 2 = Medium Light Green (Highlight) 3 = Medium Dark Green (Ruby, Agram)
 4 = Dark Green (Jamestown, Manoir) 5 = Bluegreen (Saphir) 6 = Graygreen (Scaldis)
 7 = Other (Specify): _____
 Glaucosity (Sowing Year): 1 = Absent 2 = Present (Vendome)
 Anthocyanin; 1 = Absent 2 = Present Hairs (Basal): 1 = Absent 2 = Present
 Margins: 1 = Smooth 2 = Semi-rough 3 = Rough
 Margin folding (closure): 1 = Rolled inward (closed-Highlight) 2 = Flat (open-Jamestown, Engina)
 Width class: 1 = Very fine (Agram, Frida) 2 = Fine (Jamestown, Highlight, Banner, Dawson)
 3 = Medium Fine (Fortress, Ruby, Scaldis) 4 = Medium Coarse (Engina)

8. LEAF BLADE (Continued):

0	8	1
---	---	---

mm Length (flag leaf) **Table 2**

--	--

mm Shorter than

--	--

Blade length same as

--	--

0	4
---	---

mm Longer than

1	6
---	---

Comparison Variety

#200800011

2	5	0
---	---	---

mm Width (flag leaf) **Table 2**

--	--

mm Narrower than

--	--

Blade width same as

--	--

Comparison Variety

	3	0
--	---	---

mm Wider than

1	6
---	---

9. LEAF SHEATH:

2

Anthocyanin (seedling): 1 = Absent (Highlight) 2 = Present (Jamestown, Fortress, Marga)

1

Auricle Hairiness: 1 = Absent 2 = Present

2

Margins: 1 = Open (Highlight) 2 = Closed (Jamestown)

10. PANICLE (Mature plant):

2

Shape: 1 = Narrow-tapering 2 = Ovate

3 = Oblong 4 = Other (Specify): _____

2

Type: 1 = Open 2 = Intermediate 3 = Compact

2

Orientation: 1 = Erect 2 = Nodding

2

Branch Pubescence: 1 = Glabrous 2 = Pubescent

1

Anther Color: } 1 = Yellowish Green 2 = Green 3 = Bluish Green 4 = Purplish

2

Glume Color (At 50% flowering): } 5 = Reddish 6 = Other (Specify): _____

1	1	3
---	---	---

mm Length **Table 2**

0	4
---	---

mm Shorter than

1	6
---	---

Panicle length same as

--	--

Comparison Variety

--	--

mm longer than

--	--

11. PALEA:

2

Hairs (On keels or margins): 1 = Absent (Banner) 2 = Short (Agram, Scaldis, Olds)

3 = Long (Rainier, Fortress, Jamestown)

12. LEMMA (Mature plant):

#200800011

Hairs: 1 = Absent (Jamestown) 2 = Several 3 = Many (Highlight)

mm Lemma Length

mm Shorter than

Lemma length same as

mm Longer than

} Comparison Variety

mm Lemma Width

mm Narrower than

Lemma width same as

mm Wider than

} Comparison Variety

Awns: 1 = Absent 2 = Present

mm Awn Length

mm Shorter than

Awn length same as

mm Longer than

} Comparison Variety

13. SEED (With lemma and palea):

Size Class (g/1000 seed):

1 = [< 0.9 g] (Biljart, Dawson)

2 = [$0.9 - < 1.1$ g] (Jamestown, Highlight)

3 = [$1.1 - 1.3$ g] (Fortress, Novorubra)

4 = [> 1.3 g] (Boreal, Golfrood)

mg per 1000 seed

mg per 1000 seed less than

Seed Weight same as

mg per 1000 seed more than

} Comparison Variety

14. DISEASE, INSECT, AND NEMATODE REACTION

0=Not Tested 1=Highly susceptible 4=Moderately susceptible
6=Moderately resistant 9= Highly resistant

Melting-out *Drechslera poae* (*Helminthosporium vagans*)

Stripe Rust *P. striiformis*

Leaf Spot *D. siccans*

Leaf Rust *P. poae-nemorale*

Net Blotch *D. dictyoides*

P. crandallii

Leaf Spot *Bipolaris sorokiniana*

Pythium Blight *Pythium ultimum*

Brown Patch *Rhizoctonia solani*

Red Thread *Corticium fusciforme*

Powdery Mildew *Erysiphe graminis*

Dollar Spot *Sclerotinia homoeocarpa*

Stripe Smut *Ustilago striiformis*

Insect Cut Worm

14. DISEASE, INSECT, AND NEMATODE REACTION (Continued):

#200800011

0 F. Patch, Pink snow-mold *Fusarium nivale*

Nematode _____

6 Fusarium Blight *F. trincinctum*, *F. roseum*

Other _____

0 Gray Snow Mold *Typhula lotana*

Other _____

7 Stem Rust *Puccinia graminis*

Other _____

15. GIVE THE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R., one of the following numbers.

1 = Application variety is less than the comparison variety. 2 = Application variety is the same as the comparison variety.

3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Rhizome Length	--	--	Growth Habit	2	Shadow II
Leaf Width	2	Shadow	Leaf Color	3	Shadow II
Panicle Color	1	Shadow II	Panicle Shape	3	Shadow II
Winter Color	1	Cascade	Cold Injury		
Shade Tolerance	3	Shadow II, Cascade	Heat		
Drought	2	Cascade	Disease*		

- Specify each disease evaluated.

16. ADDITIONAL DESCRIPTION:

Exhibit D - Revised

Additional Description of 'Treasure II' (PST-4TZ) Chewings Fescue

1. Treasure II has shown excellent traffic tolerance for two years in Madison, WI (Tables 4-5).
2. Treasure II has shown good resistance to dollar spot for two years (Tables 6-7).
3. Treasure II has excellent turf quality performance with good establishment ratings in Oregon (Tables 8-9), New Jersey (Table 10), North Carolina (Tables 11-12) and Holland (Table 13). This variety has also performed well across the U.S. (Tables 15-18).
4. Treasure II has shown good performance under shady conditions (Tables 14 and 19).
5. Treasure II has good resistance to red thread (Tables 20-21).
6. Treasure II has shown good resistance to pythium blight (Table 22) and brown patch (Tables 23).

Table 1. 2005 mean initial heading dates for entries in a fine fescue seed yield trial seeded fall of 2003 near Hubbard, OR.

Entry	2005
Treasure II	19 April
Tiffany	16 April
Shadow II	12 April
LSD (0.05)	10 days

Table 2. 2007 mean morphological measurements for entries in a fine fescue seed yield trial seeded fall of 2006 near Hubbard, OR.

Entry	Plant Height (cm)	Panicle Length (cm)	Flag Leaf Height (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Tiller Leaf Length (cm)	Tiller Leaf Width (mm)	Tiller Count (#/100 cm²)
Treasure	96.2	13.3	46.5	8.5	2.4	8.5	2.6	35.1
Treasure II	92.8	11.3	44.2	8.1	2.5	8.4	2.5	37.8
Shadow II	91.5	11.7	39.7	8.1	2.2	8.9	2.1	29.6
LSD (0.05)	2.1	1.0	2.2	0.5	0.2	0.5	0.2	10.0

Table 3. 2005 mean morphological measurements for entries in a fine fescue spaced-plant trial planted fall of 2003 near Hubbard, OR.

Entry	Panicle Length (cm)
Treasure	12.4
Treasure II	11.7
Shadow	14.4
LSD (0.05)	0.7

TABLE 4. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS IN THE 2003 NATIONAL FINELEAF FESCUE TEST AT MADISON (TRAFFIC STUDY), WI 1/ 2005 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT COVER			DOLLAR SPOT	MAY	JUN	JUL	QUALITY RATINGS			OCT	MEAN
			SPRING	SUMMER	FALL					AUG	SEP			
AMBASSADOR	6.3	5.3	99.0	88.3	98.3	8.3	8.3	7.0	7.3	7.3	8.7	7.8		
DP 77-9886	5.0	6.3	97.7	86.7	98.3	7.3	7.7	6.3	7.0	8.0	9.0	7.7		
LONGFELLOW II	6.3	6.7	97.7	86.3	98.0	8.7	7.3	7.7	7.3	7.0	8.0	7.7		
TREASURE II	4.7	5.0	98.3	89.0	95.3	9.0	8.7	6.0	7.7	6.7	7.7	7.6		
ZODIAC (BUR 4601)	6.0	5.7	99.0	89.0	97.3	8.7	7.7	5.7	6.7	6.7	8.3	7.2		
DP 77-9885	7.0	4.7	99.0	86.7	98.0	7.3	6.7	6.3	6.3	7.0	7.7	7.1		
J-5 (JAMESTOWN 5)	6.7	6.0	98.0	89.3	98.3	8.0	6.3	5.7	7.0	7.3	8.3	6.9		
COMPASS (ACF 188)	7.7	4.7	97.7	85.0	96.7	8.3	7.0	5.7	6.3	6.7	8.3	6.8		
SR 5130 (SRX 51G)	7.3	6.3	99.0	84.0	95.7	9.0	8.3	4.3	5.3	6.0	7.3	6.7		
MUSICA	4.0	6.0	99.0	80.0	92.7	6.0	8.3	4.0	4.3	6.7	7.0	6.4		
7 SEAS	7.3	4.7	98.7	81.7	97.0	7.7	6.0	5.3	4.7	5.3	8.0	6.1		
CASCADE	6.3	6.3	98.0	81.7	94.7	8.3	7.0	5.0	5.0	5.7	7.0	6.1		
CULUMBRA II (ACF 174)	8.0	5.7	99.0	71.7	92.7	8.7	8.3	3.0	4.0	5.0	7.0	6.0		
LSD VALUE	1.0	2.8	1.4	17.3	8.6	2.3	1.2	3.0	2.8	3.9	2.6	1.5		
C.V. (%)	9.7	19.1	0.7	8.3	3.4	12.9	9.3	25.5	22.2	21.6	12.9	10.5		

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 5. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS GROWN UNDER TRAFFIC STRESS AT MADISON, WI 1/ 2006 DATA
TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	MAY	JUN	JUL	QUALITY RATINGS			MEAN
							SEP	AUG	SEP	
SR 5130 (SRX 51G)	94.0	96.0	94.0	8.7	8.7	7.7	7.7	8.3	7.7	8.1
AMBASSADOR	94.7	98.0	95.0	8.7	8.0	7.3	8.0	8.0	7.7	7.9
DP 77-9886	96.7	91.7	98.0	8.0	9.0	7.3	6.0	8.3	8.0	7.8
TREASURE II	97.7	91.3	90.7	8.3	9.0	7.7	7.0	7.0	7.0	7.7
ZODIAC (BUR 4601)	94.7	94.3	95.7	7.7	7.7	7.3	7.7	8.0	8.0	7.7
DP 77-9885	95.0	93.0	95.7	8.0	8.3	6.7	6.7	7.3	7.3	7.4
LONGFELLOW II	94.0	92.0	91.7	7.7	7.7	7.0	6.0	7.3	7.7	7.2
MUSICA	97.7	89.0	90.0	8.3	8.3	6.0	6.0	6.3	6.3	6.9
IS-FRC 17	95.7	87.7	91.3	8.7	7.3	5.7	5.3	6.0	6.3	6.6
J-5 (JAMESTOWN 5)	94.7	85.7	94.3	7.3	6.7	6.0	5.7	7.3	6.7	6.6
COMPASS (ACF 188)	81.7	89.0	90.0	7.3	5.7	6.3	5.7	6.0	6.3	6.2
CASCADE	85.7	78.3	89.0	6.3	6.0	4.7	4.7	5.7	6.3	5.6
7 SEAS	87.7	78.3	89.0	7.0	6.7	4.3	4.0	5.0	5.3	5.4
CULMBRA II (ACF 174)	93.3	65.0	84.0	7.0	7.0	4.7	3.3	5.0	5.3	5.4
LSD VALUE	7.7	9.8	18.9	2.3	1.4	2.4	2.6	4.3	3.4	1.7
C.V. (%)	4.6	6.8	7.2	12.5	10.8	19.1	23.0	25.1	19.7	13.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 6. DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2005 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	MA1	PA1	MEAN
AMBASSADOR	8.7	8.3	8.5
LONGFELLOW II	9.0	7.7	8.3
TREASURE II	8.7	8.0	8.3
SR 5130 (SRX 51G)	8.7	8.0	8.3
ZODIAC (BUR 4601)	8.0	8.7	8.3
DP 77-9885	8.3	7.3	7.8
CASCADE	7.7	7.3	7.5
IS-FRC 17	7.7	7.3	7.5
7 SEAS	7.7	7.0	7.3
COMPASS (ACF 188)	6.7	8.0	7.3
J-5 (JAMESTOWN 5)	6.7	7.7	7.2
CULMBRA II (ACF 174)	7.3	6.0	6.7
DP 77-9886	6.0	7.3	6.7
MUSICA	5.7	7.3	6.5
LSD VALUE	2.1	1.4	1.3
C.V. (%)	17.4	11.2	14.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 7. DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2004 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	MD1
COMPASS (ACF 188)	9.0
SRX 51G	9.0
TREASURE II	8.3
ZODIAC (BUR 4601)	8.3
AMBASSADOR	8.0
DP 77-9885	8.0
IS-FRC 17	8.0
DP 77-9886	7.7
J-5 (JAMESTOWN 5)	7.7
7 SEAS	7.0
CULUMERA II (ACF 174)	7.0
LONGFELLOW II	7.0
CASCADE	6.7
LSD VALUE	0.7
C.V. (%)	5.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

Table 8. 2006 Mean establishment and turf quality ratings for entries in a fine fescue turf trial seeded fall of 2005 near Hubbard, OR.

Entry	Establishment (1 month)	Turf Quality
Treazure II	7.0 ¹	7.0 ²
7 Seas	6.0	6.6
Longfellow II	3.3	6.1
Shadow II	6.0	6.0
Polaris	6.3	5.9
Center	6.0	5.8
Tiffany	6.0	5.7
Treazure	7.0	5.6
PST-4EC	5.7	5.2
LSD (0.05)	1.3	0.7

¹9 = 100% established; ²9 = ideal

Table 9. Mean turf quality ratings for entries in a fine fescue turf trial seeded fall of 2004 near Hubbard, OR.

Entry	2005	2006	Mean
Treazure II	6.2	6.6	6.4
7 Seas	6.3	5.8	6.0
Shadow II	6.2	5.8	6.0
Tiffany	5.6	5.3	5.5
Polaris	5.3	5.3	5.3
LSD (0.05)	0.9	0.7	0.6

¹9 = ideal

Table 10. Performance of chewing fescue cultivars and selections in a turf trial seeded in September 2004 at Adelphia, NJ.

Entry	Establishment Oct. 2004	Turf Quality 2005 Avg.
Treazure II	7.3 ¹	6.6 ²
Ambassador	8.0	5.5
Longfellow II	6.7	5.3
Shadow II	8.3	5.1
SR 5100	7.0	4.4
Jamestown II	6.7	3.8
LSD (0.05)	1.1	0.7

¹9 = best establishment; ²9 = best turf quality

Table 11. Mean turf quality ratings for entries in a fine fescue turf trial seeded fall of 2004 near Rolesville, NC.

Entry	Mean (2005-06)
Treasure II	5.8
7 Seas	5.5
Ambassador	5.3
Shadow II	5.3
Longfellow II	5.1
Tiffany	4.4
Polaris	3.6
LSD (0.05)	1.0

¹9 = ideal

Table 12. 2004 mean turf quality ratings for entries in a fine fescue turf trial seeded fall of 2003 near Rolesville, NC.

Entry	Apr-Jun	Jul-Sep	Oct-Dec	Mean
Ambassador	6.8	6.2	7.2	6.7
Treasure II	6.2	6.2	7.0	6.5
Treasure	6.3	5.4	6.5	6.1
Shadow II	6.7	5.1	5.2	5.6
Longfellow II	5.2	5.1	5.7	5.3
Cascade	6.1	4.9	4.7	5.2
Intrigue	5.3	5.0	5.0	5.1
Jamestown II	5.3	4.9	4.7	4.9
Tiffany	6.0	4.1	4.0	4.7
Polaris	4.1	3.1	2.5	3.2
LSD (0.05)	1.2	1.0	1.2	0.9

¹9 = ideal

Table 13. Mean establishment and turf quality ratings for entries in a fine fescue turf trial seeded fall of 2004 at den Haan Farm, Bergen op zoom, Holland.

Entry	Establishment 6 wk	Turf Quality			Mean
		June	Oct	Dec	
PST-4CH3	4.3	7.0	7.7	7.7	7.4
Treasure II	5.0	6.3	7.3	8.0	7.2
Polaris	3.7	7.0	7.0	6.7	6.9
Tiffany	5.0	5.7	6.3	7.0	6.3
LSD (0.05)	1.2	1.6	1.4	2.0	1.3

¹9 = fully established²9 = ideal

Table 14. Mean turf quality ratings for entries in a fine fescue shade turf trial seeded fall of 2003 near Hubbard, OR.

Entry	2005	2006	Mean
Shadow II	5.2	4.8	5.0
Longfellow II	4.5	4.2	4.3
Ambassador	4.3	3.8	4.1
Treazure II	4.4	3.5	4.0
Cascade	3.7	3.6	3.6
LSD (0.05)	1.9	1.8	1.8

¹9 = ideal

TABLE 15. MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS GROWN AT EIGHT LOCATIONS IN THE NORTHEAST REGION 1/ 2004 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/								R11	MEAN
	MA1	ME1	NJ1	NJ2	NY1	PA1	QE1	R11		
SRX 51G	5.9	7.3	6.9	6.5	6.2	6.3	6.5	6.3	6.5	6.5
TREASURE II	6.3	7.3	6.2	5.3	6.8	6.4	6.3	6.4	6.3	6.4
ZODIAC (BUR 4601)	6.1	7.6	6.6	5.5	5.9	6.2	6.6	6.6	6.6	6.4
IS-FRC 17	5.5	7.5	6.1	5.6	6.3	5.9	6.5	6.8	6.3	6.3
LONGFELLOW II	5.6	7.1	5.6	5.6	6.0	6.2	6.8	5.8	6.1	6.1
AMBASSADOR	5.5	7.6	5.1	4.8	6.3	6.3	6.5	6.7	6.1	6.1
7 SEAS	5.8	7.3	6.4	5.3	6.4	5.8	6.5	4.9	6.1	6.1
DP 77-9886	5.5	7.4	5.4	4.6	6.3	5.9	6.7	6.6	6.1	6.1
DP 77-9885	5.7	7.3	6.3	5.0	6.0	5.8	6.3	6.0	6.0	6.0
CULUMBRA II (ACF 174)	5.2	7.2	5.0	5.7	6.4	6.1	6.7	6.1	6.1	6.0
COMPASS (ACF 188)	5.6	7.0	5.7	5.0	6.2	5.9	6.5	5.9	6.0	6.0
CASCADE	5.4	7.2	3.7	3.8	6.2	6.1	6.7	6.6	5.7	5.7
J-5 (JAMESTOWN 5)	5.4	6.8	4.5	4.5	6.5	5.4	6.7	5.8	5.7	5.7
LSD VALUE	0.5	1.0	0.9	0.6	0.4	0.9	0.4	1.2	0.3	0.3
C.V. (%)	5.0	8.7	9.4	7.1	3.7	9.3	3.8	12.2	8.0	8.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 16. MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS GROWN AT EIGHT LOCATIONS IN THE NORTH CENTRAL REGION 1/ 2004 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									
	IA1	IL1	IN1	MI1	MN1	ND1	SD1	WI1	MEAN	
ZODIAC (BUR 4601)	6.9	5.5	7.3	7.0	6.9	5.9	6.2	6.4	6.5	
TREAZURE II	6.8	4.8	7.1	6.6	5.9	6.2	6.7	7.2	6.4	
LONGFELLOW II	7.0	4.9	6.6	7.0	6.2	5.9	6.6	7.1	6.4	
IS-FRC 17	6.2	5.1	6.8	7.0	6.2	6.1	6.3	6.8	6.3	
SRX 51G	6.3	5.2	7.1	6.7	6.1	5.8	6.2	6.6	6.3	
DP 77-9886	6.6	4.8	6.0	6.7	6.4	5.7	5.9	6.6	6.1	
CULUMBRA II (ACF 174)	6.0	4.2	6.5	7.0	5.1	6.1	7.4	6.3	6.1	
AMBASSADOR	6.5	4.5	6.3	6.7	4.9	6.2	6.7	6.8	6.1	
7 SEAS	6.7	5.6	6.5	6.6	5.6	5.9	6.2	5.2	6.0	
J-5 (JAMESTOWN 5)	6.4	4.8	6.5	6.3	5.1	5.9	6.4	5.6	5.9	
CASCADE	6.7	5.0	5.8	6.6	5.9	5.7	5.7	5.6	5.9	
DP 77-9885	6.2	4.3	6.4	6.5	4.4	6.2	6.2	6.3	5.8	
COMPASS (ACF 188)	6.6	4.2	6.0	6.9	3.8	5.8	6.3	4.9	5.6	
LSD VALUE	0.9	0.9	1.2	0.4	1.8	0.5	0.6	0.8	0.3	
C.V. (%)	8.3	11.2	11.3	3.9	20.2	4.8	5.7	7.5	9.9	

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 17. MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS GROWN AT TWO LOCATIONS IN THE PACIFIC REGION 1/ 2004 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF		MEAN
	CAB	WA3	
AMBASSADOR	7.3	5.5	6.4
SRX 51G	7.3	5.3	6.3
COMPASS (ACF 188)	7.6	5.0	6.3
IS-FRC 17	7.5	5.0	6.3
TREAZURE II	6.8	5.7	6.3
DP 77-9886	6.9	5.5	6.2
DP 77-9885	7.6	4.7	6.2
ZODIAC (BUR 4601)	6.7	5.5	6.1
7 SEAS	7.0	5.1	6.0
CULUMBRA II (ACF 174)	6.9	5.1	6.0
J-5 (JAMESTOWN 5)	7.3	4.6	5.9
LONGFELLOW II	6.9	4.9	5.9
CASCADE	7.0	4.7	5.8
LSD VALUE	1.0	0.6	0.6
C.V. (%)	8.9	7.7	8.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 18. MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS FOR EACH MONTH GROWN AT ELACKSEURG, VA (TRANSITION REGION) 1/ 2006 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/												MEAN
	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
ZODIAC (BUR 4601)	5.3	6.0	5.7	7.0	8.0	6.7	8.3	8.7	9.0	8.3	7.3		
SR 5130 (SRX 51G)	5.7	5.3	5.3	7.3	7.3	8.0	8.3	8.3	8.7	8.0	7.2		
AMBASSADOR	5.0	6.7	5.0	6.7	7.3	7.0	7.0	8.0	8.0	8.7	6.9		
COMPASS (ACF 188)	4.7	5.3	5.0	5.3	7.0	5.3	8.0	8.7	8.3	8.3	6.6		
TREASURE II	4.0	5.0	5.0	7.3	7.3	6.3	7.0	8.0	7.7	8.3	6.6		
IS-FRC 17	4.3	5.0	4.7	6.7	7.3	7.0	6.7	8.0	7.7	7.0	6.4		
7 SEAS	3.7	4.7	4.7	5.7	6.3	6.7	7.0	7.7	8.0	8.3	6.3		
LONGFELLOW II	4.0	4.0	4.0	5.7	6.3	7.0	6.7	8.0	8.3	7.7	6.2		
DP 77-9885	3.3	4.3	4.0	5.0	7.3	6.7	6.7	7.7	7.7	8.0	6.1		
J-5 (JAMESTOWN 5)	3.3	4.0	4.0	6.0	7.0	6.7	6.7	7.3	7.3	7.0	5.9		
COLUMBERA II (ACF 174)	5.0	5.7	6.0	8.0	7.0	5.7	6.0	5.7	5.0	5.0	5.9		
DP 77-9886	3.7	3.7	3.7	4.3	4.7	6.7	5.7	6.3	6.3	6.3	5.1		
CASCADE	4.0	4.7	4.7	5.7	6.0	5.7	3.7	4.3	3.7	4.3	4.7		
MUSICA	3.7	4.3	4.7	4.3	3.7	3.7	4.0	4.3	4.3	3.3	4.0		
LSD VALUE	1.4	1.6	1.4	1.9	1.8	2.2	2.1	1.6	2.2	1.7	1.1		
C.V. (%)	20.8	20.4	19.0	19.4	17.1	21.2	20.3	13.5	18.8	14.7	10.8		

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 19. MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS
GROWN UNDER SHADE AT THREE LOCATIONS 1/
2006 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IL2	NE1	UT1	MEAN
DP 77-9885	7.0	6.5	6.1	6.5
ZODIAC (BUR 4601)	7.4	6.3	5.6	6.4
IS-FRC 17	7.0	5.8	5.5	6.1
TREAZURE II	7.3	6.0	4.8	6.1
CASCADE	6.6	6.0	5.4	6.0
SR 5130 (SRX 51G)	5.9	7.2	4.6	5.9
LONGFELLOW II	6.8	5.3	5.6	5.9
DP 77-9886	7.5	5.2	4.8	5.8
MUSICA	6.2	5.8	5.2	5.7
J-5 (JAMESTOWN 5)	6.0	5.7	5.4	5.7
AMBASSADOR	6.2	6.3	4.4	5.6
CULUMBERA II (ACF 174)	6.6	5.2	5.1	5.6
COMPASS (ACF 188)	6.4	4.5	5.2	5.4
7 SEAS	6.3	5.2	4.4	5.3
LSD VALUE	1.5	1.6	1.2	0.8
C.V. (%)	13.7	17.5	14.2	15.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 20.

RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2004 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	ME1	PA1	WA3	WI1	MEAN
COMPASS (ACF 188)	8.3	8.0	5.7	9.0	7.8
DP 77-9886	9.0	7.7	5.3	9.0	7.8
AMBASSADOR	9.0	6.7	6.0	9.0	7.7
LONGFELLOW II	8.3	8.0	5.0	9.0	7.6
ZODIAC (BUR 4601)	8.7	7.7	5.0	9.0	7.6
7 SEAS	8.3	7.7	5.0	9.0	7.5
CASCADE	8.7	7.3	5.0	9.0	7.5
TREAZURE II	8.3	7.7	5.0	9.0	7.5
DP 77-9885	8.3	7.0	5.3	9.0	7.4
J-5 (JAMESTOWN 5)	8.0	7.3	4.7	9.0	7.3
SRX 51G	8.0	7.0	5.0	9.0	7.3
CULMBRA II (ACF 174)	7.3	6.7	5.3	9.0	7.1
IS-FRC 17	7.7	6.3	4.7	8.7	6.8
LSD VALUE	1.5	1.7	1.7	0.3	0.7
C.V. (%)	11.1	14.7	20.8	1.8	12.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

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TABLE 21. RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS
AT BLACKSBURG, VA 1/
2004 DATA

NAME	RED THREAD RATINGS 1-9; 9=NO DISEASE 2/			MEAN
	MARCH	AUGUST		
CULMBRA II (ACF 174)	7.7	8.7		8.2
IS-FRC 17	7.3	8.0		7.7
COMPASS (ACF 188)	6.7	8.0		7.3
SRX 51G	7.0	7.7		7.3
LONGFELLOW II	7.0	7.3		7.2
CASCADE	6.3	7.7		7.0
PST-4TZ	6.3	7.7		7.0
J-5 (JAMESTOWN 5)	6.7	7.0		6.8
7 SEAS	6.0	7.3		6.7
ZODIAC (BUR 4601)	6.0	7.3		6.7
AMBASSADOR	5.3	7.7		6.5
DP 77-9885	6.3	6.7		6.5
DP 77-9886	5.3	7.3		6.3
LSD VALUE	1.5	3.5		1.6
C.V. (%)	11.8	15.1		10.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

#200800011

TABLE 22. PYTHIUM BLIGHT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2005 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE 2/

NAME	MA1
TREASURE II	7.0
DP 77-9885	5.3
SR 5130 (SRX 51G)	5.3
COMPASS (ACF 188)	5.0
7 SEAS	4.7
CASCADE	4.7
J-5 (JAMESTOWN 5)	4.7
MUSICA	4.7
IS-FRC 17	4.3
ZODIAC (BUR 4601)	4.3
CULUMBRA II (ACF 174)	3.7
DP 77-9886	3.7
LONGFELLOW II	3.7
AMBASSADOR	2.7
LSD VALUE	3.4
C.V. (%)	46.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

#200800011

TABLE 23. BROWN PATCH (WARM TEMPERATURE) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2005 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	ME1
COMPASS (ACF 188)	7.3
AMBASSADOR	6.7
LONGFELLOW II	6.7
DP 77-9886	6.3
J-5 (JAMESTOWN 5)	6.3
ZODIAC (BUR 4601)	6.3
CULUMERA II (ACF 174)	6.0
TREAZURE II	6.0
7 SEAS	5.7
CASCADE	5.3
SR 5130 (SRX 51G)	5.3
IS-FRC 17	4.7
MUSICA	4.7
DP 77-9885	3.3
LSD VALUE	4.0
C.V. (%)	42.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

#200800011

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

**EXHIBIT E
 STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S) Pure-Seed Testing, Inc.,	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER PST-4TZ	3. VARIETY NAME Treasure II
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Pure-Seed Testing, Inc. PO Box 449 Hubbard, OR 97032	5. TELEPHONE (include area code) 503-263-0719	6. FAX (include area code) 503-263-0703
7. PVPO NUMBER #200800011		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. YES NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country. YES NO

10. Is the applicant the original owner? YES NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?
 YES NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
 YES NO If no, give name of country

11. Additional explanation on ownership. (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

On 30 April 2005, Pure-Seed Testing, Inc. licensed Treasure II to Turf-Seed, Inc., to grow, produce, and market the variety throughout the world. On 16 May 2006, The Scotts Company LLC purchased this license from Turf-Seed, Inc.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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FORM APPROVED - OMB NO. 0581-0055

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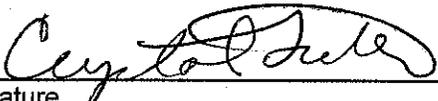
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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Pure-Seed Testing, Inc.	ADDRESS (Street and No., or RD No., City, State, and ZIP Code and Country) PO Box 449 Hubbard, OR 97032	TEMPORARY OR EXPERIMENTAL DESIGNATION PST-4TZ
		VARIETY NAME Treasure II
NAME OF OWNER REPRESENTATIVE(S) Crystal Rose-Fricker	ADDRESS (Street and No., or RD No., City, State, and ZIP Code and Country) PO Box 449, Hubbard, OR 97032	FOR OFFICIAL USE ONLY
		PVPO NUMBER #2008000 11

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.


Signature


Date